

## **BAYTECH CORPORATION**

EXECUTIVE ORDER A-330-0209 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC <sup>6</sup>		
2009	9BYTE06.0633	6.0	LPG	PROCEDURE	HDO	2TWC, SFI, 2HO2S(2)			
EMISSION	S CONTROL		AC	DITIONAL IDLE EN	<u> </u>	TROL 5			
	N/A			N.	/A				
ENGINE (L)			ENGINE MO	DELS / CODES (rat	ted power, in h	ip)			
6.0	GM6.0L / 1 (290)								
CNG/LNG L/WH HD ECS=emis up catalyst; I TBI=throttle b super charge control modul ESS=engl	i=compressed/liquefied natu D=light/medium/heavy heav ssion control system; TWC, DPF=diesel particulate filter; cody fuel injection; SFI/MF = r. CAC=charge air cooler; le: EM=engine modification the shutdown system (per 13	ural gas; LPG=liquefier y-duty diesel; UB=urb OC=three-way/oxidizin PTOX=periodic trap o sequential/multi port fic EGR / EGR-C=exhaust 2 (preflx)=parallel; (2) 3 CCR 1956 8/ay6y6y	d petroleum gas: E85=85% an bus: HDO=heavy duty Ori g catalyst; NAC=NOx adsorxidizer: HO2S/O2S=heated/ tel injection; DGI=direct gas gas recirculation / cooled EC 2) (suffix)=in series;	ethanol fuel; MF=multi tio; pilon catalyst; SCR-U oxygen sensor; HAFS bline injection; GCARI SR; PAIR/AIR=pulsed	fuel a.k.a. BF=I / SCR-N=selecti //AFS=heated/aii B=gaseous carbi /secondary air in	86.abc=Title 40, Code of Federal Regulation in the control of the	WU (prefix) =warm- roxygen sensor); in; TC/SC=turbo/ /f=engine/powertrain		
			956.8(a)(6)(B) or for CNG/LI ); OBD=on-board diagnosti			combustion auxiliary power system; ALT≃a e.g., Otto engines and vehicles);	aiternative method		

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in

in g/bhp-hr	NMHC		NOx		NMHC+NOx .		CO		PM		Н нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	•	0.20	•	*	*	14.4	*	0.01	*	0.01	
FEL	*	*	*	*	*	*	*	*	*	<del>                                     </del>	0.01	-
CERT	0.07	*	0.14	*	*	*	6.5	*	0.003	+	0.001	+
VTE	1	<b>*</b>		*		*	- 0.0	*	0.000		0.001	<u></u>

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen: CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

**BE IT FURTHER RESOLVED**: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_ day of March 2009

Annette Hebert, Chief

Mobile Source Operations Division